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OIEP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/858,349

DATE: 08/08/2001

TIME: 11:11:40

Input Set : A:\87534-2800.ST25.txt

Output Set: N:\CRF3\08082001\I858349.raw

3 <110> APPLICANT: PLAKSIN, Daniel  
 5 <120> TITLE OF INVENTION: SMALL FUNCTIONAL UNITS OF ANTIBODY HEAVY CHAIN VARIABLE  
 REGIONS

7 <130> FILE REFERENCE: 87534-2800  
 9 <140> CURRENT APPLICATION NUMBER: 09/858,349

C--> 10 <141> CURRENT FILING DATE: 2000-06-02

12 <160> NUMBER OF SEQ ID NOS: 16

14 <170> SOFTWARE: PatentIn version 3.1

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 411

18 <212> TYPE: DNA

19 <213> ORGANISM: mouse hybridoma specific for H-2D + RGPGRAFVTI peptide

21 <220> FEATURE:

22 <221> NAME/KEY: misc\_feature

23 <222> LOCATION: (295)..(320)

24 <223> OTHER INFORMATION: a or g or c or t/u *OK*

27 <400> SEQUENCE: 1

28 gatgtccagc tgcaggagtc aggacctggc ctctgtgaaac cttctcagtc tctgtctctc 60  
 30 acctgctctg tcaactggcta ctccatcacc agtggttatt actggaactg gatccggcag 120  
 32 tttccaggaa acaaaactgga atggatgggc tacataagct acgatggtag caataactac 180  
 34 aacccatctc tcaaaaatcg aatctccatc actcgtgaca catctaagaa ccagtttttc 240  
 W--> 36 ctgaagtga attctgtgac tactgaggac acagccacat attactgtgc aagannknkn 300  
 W--> 38 nnknknknkn knknknknkn kgactactgg ggccaaggga ccaactgtcac cgtcgcggcc 360  
 40 gcaggtgcgc cggtgccgta tccggatccg ctggaaccgc gtgccgcata g 411

43 <210> SEQ ID NO: 2

44 <211> LENGTH: 136

45 <212> TYPE: PRT

46 <213> ORGANISM: mouse hybridoma specific for H-2D + RGPGRAFVTI peptide

48 <220> FEATURE:

49 <221> NAME/KEY: MISC\_FEATURE

50 <222> LOCATION: (99)..(107)

51 <223> OTHER INFORMATION: variable *OK*

54 <400> SEQUENCE: 2

56 Asp Val Gln Leu Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 57 1 5 10 15  
 60 Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly  
 61 20 25 30  
 64 Tyr Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp  
 65 35 40 45  
 68 Met Gly Tyr Ile Ser Tyr Asp Gly Ser Asn Asn Tyr Asn Pro Ser Leu  
 69 50 55 60  
 72 Lys Asn Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe  
 73 65 70 75 80  
 76 Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys  
 77 85 90 95  
 W--> 80 Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Tyr Trp Gly Gln  
 81 100 105 110  
 84 Gly Thr Thr Val Thr Val Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro

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85          115          120          125
88 Asp Pro Leu Glu Pro Arg Ala Ala
89          130          135
92 <210> SEQ ID NO: 3
93 <211> LENGTH: 10
94 <212> TYPE: PRT
95 <213> ORGANISM: mouse hybridoma specific for H-2D + RGPGRFVVTI peptide
97 <400> SEQUENCE: 3
99 Arg Gly Pro Gly Arg Ala Phe Val Thr Ile
100 1          5          10
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 54
105 <212> TYPE: DNA
106 <213> ORGANISM: sfiI5' OK
108 <400> SEQUENCE: 4
109 aaggaaaaaa aaggcccagc cggccgatgt ccagctgcag gagtcaggac cggc 54
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 100
114 <212> TYPE: DNA
115 <213> ORGANISM: NotI3' oligonucleotide OK
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (51)..(76)
120 <223> OTHER INFORMATION: a or c or g or t/u
123 <400> SEQUENCE: 5
W--> 124 tatcaaatgc ggccgcgacg gtgacagtgg tcccttggcc ccagtagtcm nnnnnnnnnnn 60
W--> 126 nnnnnnnnnnn nnnnnntctt gcacagtaat atgtggctgt 100
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 5
131 <212> TYPE: PRT
132 <213> ORGANISM: phage clone with randomized VH gene inserted
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE
136 <222> LOCATION: (2)..(2)
137 <223> OTHER INFORMATION: a hydrophilic residue though this may not be a exclusive
requirem
138          ent
141 <400> SEQUENCE: 6
W--> 143 Gly Xaa Ser Pro Gln
144 1          5
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 9
149 <212> TYPE: PRT
150 <213> ORGANISM: phage clone with randomized VH gene inserted
152 <400> SEQUENCE: 7
154 Phe Pro Thr Gly Asp Leu Ala Glu Lys
155 1          5
158 <210> SEQ ID NO: 8
159 <211> LENGTH: 9
160 <212> TYPE: PRT

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161 <213> ORGANISM: phage clone with randomized VH gene inserted
163 <400> SEQUENCE: 8
165 Asn Gly Lys Ser Pro Gln Ala Ala Trp
166 1 5
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 9
171 <212> TYPE: PRT
172 <213> ORGANISM: phage clone with randomized VH gene inserted
174 <400> SEQUENCE: 9
176 Gln Ser Gly Gln Ser Pro Gln Ser Ile
177 1 5
180 <210> SEQ ID NO: 10
181 <211> LENGTH: 9
182 <212> TYPE: PRT
183 <213> ORGANISM: phage clone with randomized VH gene inserted
185 <400> SEQUENCE: 10
187 Trp Gly Ser Trp Arg Asn Gly Lys Asn
188 1 5
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 9
193 <212> TYPE: PRT
194 <213> ORGANISM: phage clone with randomized VH gene inserted
196 <400> SEQUENCE: 11
198 Trp Ala Lys Gly Arg Ser Thr Met Tyr
199 1 5
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 9
204 <212> TYPE: PRT
205 <213> ORGANISM: phage clone with randomized VH gene inserted
207 <400> SEQUENCE: 12
209 Trp Gly Met Tyr Arg Ser Gly Thr Gly
210 1 5
213 <210> SEQ ID NO: 13
214 <211> LENGTH: 34
215 <212> TYPE: DNA
216 <213> ORGANISM: pET-21 a VH5'NdeI
218 <400> SEQUENCE: 13
219 gggaattcca tatggatgtc cagctgcagg agtc 34
222 <210> SEQ ID NO: 14
223 <211> LENGTH: 34
224 <212> TYPE: DNA
225 <213> ORGANISM: pET-21aVH3' XhoI
227 <400> SEQUENCE: 14
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231 <210> SEQ ID NO: 15
232 <211> LENGTH: 9
233 <212> TYPE: PRT
234 <213> ORGANISM: phage clone with randomized VH gene inserted
236 <400> SEQUENCE: 15

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238 His Ala Gln Arg Arg Pro Trp Ile Arg

239 1 5

242 &lt;210&gt; SEQ ID NO: 16

243 &lt;211&gt; LENGTH: 9

244 &lt;212&gt; TYPE: PRT

245 &lt;213&gt; ORGANISM: phage clone with randomized VH gene inserted

247 &lt;400&gt; SEQUENCE: 16

249 Glu Asp Pro His Pro Gln Arg Gly Tyr

250 1 5

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/858,349

DATE: 08/08/2001

TIME: 11:11:41

Input Set : A:\87534-2800.ST25.txt

Output Set: N:\CRF3\08082001\I858349.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6